

REMARKS

Claims 1-18 are pending in the application. The Examiner rejected Claims 1-5 and 10-14 under 35 U.S.C. §112, second paragraph, as being indefinite. The Examiner has rejected Claims 1-5 under 35 U.S.C. §102(a) as being anticipated by Applicants' Admitted Prior Art (APA). The Examiner rejected Claims 10-14 under 35 U.S.C. §103(a) as being unpatentable over APA in view of Cimini, Jr. et al. (U.S. Patent 6,404,783). The Examiner rejected Claims 6, 8, 9, 15, 17 and 18 under 35 U.S.C. §103(a) as being unpatentable over Abeta et al. (U.S. Publication 2001/0028637) in view of Matsuoka et al. (U.S. Publication 2004/0008614). The Examiner rejected Claims 7 and 16 under 35 U.S.C. §103(a) as being unpatentable over Abeta et al. in view of Matsuoka et al., and further in view of Scarpa (U.S. Publication 2004/0001563).

Please amend Claims 1-18 as set forth herein. Please add new Claims 19-21 as set forth herein. No new matter has been added.

Regarding the rejection of Claims 1-5 and 10-14 under §112, second paragraph, the Examiner states that these claims are indefinite. The amendments of the claims contained herein render the objections moot.

Based on at least the foregoing, withdrawal of the objections to Claims 1-5 and 10-14 is respectfully requested.

Regarding the rejection of independent Claim 1 under §102(a), the Examiner states that the APA anticipates each and every element of the claim. As shown in Table 2, in the APA, a specific transmission antenna from among a plurality of the transmission antennas repeatedly transmits one training symbol group having the same training symbol, i.e. the same training symbol group, among the plurality of the training symbol groups. However, Claim 1 of the present application recites transmitting each of the training symbol groups only once from each of the plurality of transmission antennas at predetermined time intervals. In particular, Claim 1 relates to the transmission scheme of Table 3 where one transmission antenna transmits all

training symbol groups in order to solve the problem caused by repeatedly transmitting, by one transmission antenna, one training symbol group as shown in Table 2 of the APA.

Based on at least the foregoing, withdrawal of the rejections of Claim 1 is respectfully requested.

Regarding the rejection of independent Claim 10 under §103(a), the Examiner states that the APA in view of Cimini, Jr. et al. renders obvious each and every element of the claim. Cimini, Jr. et al. discloses a method and apparatus for mobile data communication. Claim 10 recites transmitting the plurality of training symbol groups through the plurality of transmission antennas, so that each transmission antenna from among the plurality of transmission antennas transmits all of the plurality of training symbol groups by transmitting each training symbol group only once at predetermined time intervals. Neither the APA nor Cimini, Jr. et al., disclose this feature.

Based on at least the foregoing, withdrawal of the rejections of Claim 10 is respectfully requested.

Regarding the rejection of independent Claims 6 and 15, the Examiner states that Abeta et al. in view of Matsuoka et al. renders obvious each and every element of the claims. Abeta et al. discloses a multi-carrier CDMA radio transmitting method and apparatus, and channel estimation method and apparatus for a multi-carrier CDMA radio transmitting system; and Matsuoka et al. discloses signal selection systems. Claims 6 and 15 relate to setting different weights between the sub-carrier that includes a training symbol and the sub-carrier that does not include a training symbol, and then measuring channel estimation errors associated with the sub-carriers. That is, checking for an inclusion of the training symbol transmitted from the transmitter and setting different weight of the sub-carriers according to the inclusion of the training symbol for a channel estimation is not disclosed any combination of Abeta et al. and Matsuoka et al.

Based on at least the foregoing, withdrawal of the rejections of Claims 6 and 15 is

respectfully requested.

Independent Claims 1, 6, 10 and 15 are believed to be in condition for allowance. Without conceding the patentability per se of dependent Claims 2-5, 7-9, 11-14 and 16-18, these are likewise believed to be allowable by virtue of their dependence on their respective amended independent claims. Accordingly, reconsideration and withdrawal of the rejections of dependent Claims 2-5, 7-9, 11-14 and 16-18 is respectfully requested.

Accordingly, all of the claims pending in the Application, namely, Claims 1-21, are believed to be in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicants' attorney at the number given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paul J. Farrell", written over a horizontal line.

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